



Estd. 1953

**MOUNT CARMEL COLLEGE OF TEACHER EDUCATION FOR WOMEN**

**Muttambalam P.O., Kanjikuzhy, Kottayam- 686004**

*(Recognised by NCTE, Affiliated to Mahatma Gandhi University)*

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**PROGRAMME OUTCOMES**

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**COURSE OUTCOMES**

**B.Ed. PROGRAMME**

# PROGRAMME OUTCOMES

## B. Ed Programme

<b>PO1:</b>	<b>Understand and prioritize genuine human values and a value system based on cultural, social, political, ecological, moral basis of Indian society</b>
<b>PO2:</b>	Demonstrate teaching competence, professional skills, communication skills, reflective thinking and problem solving skills essential to function as an empowered, dedicated and proficient teacher.
<b>PO3:</b>	Design educational experiences by integrating ICT, arts and diverse assessment methods to enhance learning, nurture aesthetic sense and to provide a comprehensive evaluation of learners' progress.
<b>PO4:</b>	Understand learner diversity and develop educational plans that cater to individual learning needs, ensuring an inclusive learning environment
<b>PO5:</b>	Analyse and utilize the opportunities available to stay up-to-date and actively involved in the teaching profession
<b>PO6:</b>	Demonstrate a strong sense of social responsibility and commitment by actively promoting the empowerment of women, children and the disadvantaged individuals in the society

# COURSE OUTCOMES

## B.ED PROGRAMME

### CORE COURSES

#### EDU101 CONTEMPORARY INDIA AND EDUCATION

On completion of the course, the prospective teachers would be able to:

<b>CO 101.1.</b>	<b>Understand the Educational Heritage of India, nature of education as a discipline and its correlation with other disciplines.</b>
<b>CO 101.2.</b>	Comprehend the values, aims and ideals of society cherished in the Constitution of India.
<b>CO 101.3.</b>	Critically examine the pivotal issues of contemporary India.
<b>CO 101.4.</b>	Analyse vision, aims of education and recommendations of various commissions after independence in shaping the present education system of India.
<b>CO 101.5.</b>	Evaluate the recent initiatives in Education and the concepts with reference to the NCF (2005) and NCFTE (2009)
<b>CO 101.6.</b>	Discuss the role of various agencies of teacher education and professional growth of teachers.

#### EDU 102: CHILDHOOD AND GROWING UP

On completion of the course, the prospective teachers would be able to:

<b>CO 102.1.</b>	<b>Understand the basic principles and concepts of Educational psychology and the characteristics of emerging learners.</b>
<b>CO 102.2.</b>	Analyse the characteristics of human growth and development in childhood and Adolescence with its applications and importance and help the adolescents for better adjustment.
<b>CO 102.3.</b>	Differentiate the various cognitive processes of the learner for making the learning effective.
<b>CO 102.4.</b>	Understand the concept of intelligence and the various tests related

	to intelligence.
<b>CO 102.5.</b>	Analyse the different types of motivation and apply it in life and classroom situations.
<b>CO 102.6.</b>	Identify different categories of intelligence test and apply them in the classroom.

### **EDU 103: DEVELOPMENT AND RESOURCES IN EDUCATIONAL TECHNOLOGY**

On completion of the course, the prospective teachers would be able to:

<b>CO 103.1.</b>	Understand the nature , scope and various forms of educational technology.
<b>CO 103.2.</b>	Develop basic skills in teaching and in the production of different types of instructional material.
<b>CO 103.3.</b>	Understand the recent innovations and future perspectives of Education Technology.
<b>CO 103.4.</b>	Evaluate the merits of multimedia in the process of teaching and learning.
<b>CO 103.5.</b>	Analyse the application of information technology in the process of learning.
<b>CO 103.6.</b>	Recognize the importance of effective communication and interaction in classroom.
<b>CO 103.7.</b>	Apply appropriate instructional approaches in teaching and learning.

### **PEDAGOGIC COURSES**

#### **EDU 104.11- UNDERSTANDING THE DISCIPLINE OF ENGLISH EDUCATION**

On completion of the course, the prospective teachers would be able to:

<b>CO 104.11.1.</b>	<b>Interpret the aims and objectives of teaching English at different educational levels.</b>
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<b>CO 104.11.2.</b>	Apply an integrated approach for implementing the four-fold language skills.
<b>CO 104.11.3.</b>	Discover the ability to make use of the study skills.
<b>CO 104.11.4.</b>	Determine the extent to which the language skills have been mastered by the students.
<b>CO 104.11.5.</b>	Create spoken and written discourses based on the textual matter mentioned in the Course books in English.

### **EDU 105.11 – LEARNING TO FUNCTION AS AN ENGLISH TEACHER**

On completion of the course, the prospective teachers would be able to:

<b>CO 105.11.1.</b>	<b>Identify appropriate strategies to develop the language skills of the learners</b>
<b>CO 105.11.2.</b>	Infer the relevance of the various methods and approaches of teaching English
<b>CO 105.11.3.</b>	Make use of the different components that come under each micro-teaching skill
<b>CO 105.11.4.</b>	Create a positive and conducive learning environment by ensuring the involvement of all the learners
<b>CO 105.11.5.</b>	Utilize the maxims of teaching English while transacting the curriculum in the classroom.

### **EDU 104.16 UNDERSTANDING THE DISCIPLINE OF MATHEMATICS EDUCATION**

On the completion of the course, the prospective teachers would be able to:

<b>CO104.16.1.</b>	<b>Analyse and Appreciate the contributions of Mathematicians</b>
<b>CO 104.16.2.</b>	Examine the conceptual background of mathematics as a discipline
<b>CO 104.16.3.</b>	Appraise the scope of Mathematics
<b>CO 104.16.4.</b>	Demonstrate the inter and intra disciplinary nature of mathematics education for effective classroom practices
<b>CO 104.16.5.</b>	Identify the aims, objectives, skills and values of teaching mathematics

<b>CO 104.16.6.</b>	Design teaching learning with the taxonomy of instructional objectives of teaching mathematics
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### **EDU 105.16 LEARNING TO FUNCTION AS MATHEMATICS TEACHER**

On the completion of the course, the prospective teachers would be able to:

<b>CO 105.16.1.</b>	<b>Select various approaches and methods of teaching mathematics in the classroom</b>
<b>CO 105.16.2.</b>	Combine various techniques of developing mathematical skills in the classroom
<b>CO 105.16.3.</b>	Adapt innovative strategies of mathematics teaching
<b>CO 105.16.4.</b>	Examine teaching skills and its various levels and components
<b>CO 105.16.5.</b>	Develop the pedagogic skills
<b>CO 105.16.6.</b>	Discuss the reflective practices in mathematics teaching

### **EDU 104 .17: UNDERSTANDING THE DISCIPLINE OF PHYSICAL SCIENCE EDUCATION**

On the completion of the course, the prospective teachers would be able to:

<b>CO104.17.1.</b>	<b>Examine the historical background of Science and contribution of eminent Scientists</b>
<b>CO104.17.2.</b>	Understand the conceptual background Science and its scope
<b>CO104.17.3.</b>	Identify the Inter and Intra disciplinary nature of Physical Science
<b>CO104.17.4.</b>	Appreciate the aims and values of teaching Physical Science
<b>CO104.17.5.</b>	Analyse the taxonomy of educational objectives in Science Education

### **EDU 105.17 LEARNING TO FUNCTION AS PHYSICAL SCIENCE TEACHER**

On the completion of the course, the prospective teachers would be able to:

<b>CO105.17.1.</b>	<b>Analyse different maxims, approaches, and methods of teaching Physical Science</b>
<b>CO105.17.2.</b>	Compare various techniques of teaching Physical science

<b>CO105.17.3.</b>	Identify the innovative strategies of teaching Physical science
<b>CO105.17.4.</b>	Apply the training techniques to enhance teaching skills.
<b>CO105.17.5.</b>	Examine the pedagogic skills and motivational techniques in teaching Physical Science

### **EDU104. 18 UNDERSTANDING THE DISCIPLINE OF NATURAL SCIENCE EDUCATION**

On the completion of the course, the prospective teachers would be able to:

<b>CO 104.18.1.</b>	<b>Understand the historical background of natural science as a discipline</b>
<b>CO 104.18.2.</b>	Analyze the conceptual background of natural science and its role in social realm
<b>CO 104.18.3.</b>	Utilize the inter and intra disciplinary nature of natural science for effective classroom teaching
<b>CO 104.18.4.</b>	Evaluate the aims and values of teaching natural science
<b>CO 104.18.5.</b>	Apply the taxonomies of educational objectives in planning of instruction
<b>CO 104.18.6.</b>	Interpret the contribution of scientists in the field of biology

### **EDU105.18 LEARNING TO FUNCTION AS NATURAL SCIENCE TEACHER**

On the completion of the course, the prospective teachers would be able to:

<b>CO 105.18.1.</b>	<b>Compare various maxims, approaches, and methods of teaching natural science</b>
<b>CO 105.18.2.</b>	Discuss various techniques of teaching natural science
<b>CO 105.18.3.</b>	Categorize various innovative strategies in teaching natural science
<b>CO 105.18.4.</b>	Evaluate characteristics and phases of developing teaching skills natural science
<b>CO 105.18.5.</b>	Distinguish the pedagogic skills and motivational techniques in teaching
<b>CO 105.18.6.</b>	Create concept map based on biology topics

## EDU 104.19 UNDERSTANDING THE DISCIPLINE OF SOCIAL SCIENCE

On the completion of the course, the prospective teachers would be able to:

<b>CO 104.19.1.</b>	<b>Develop knowledge about Historical Background of Social Science</b>
<b>CO 104.19.2.</b>	Compare the difference between Social Science and Social Studies
<b>CO104.19.3.</b>	Evaluate the interdisciplinary nature of Social Science
<b>CO 104.19.4.</b>	Understand the Values of teaching Social Science
<b>CO104.19.5.</b>	Identify the differences between Objective based instruction and Competency based instruction.

## EDU 105.19 LEARNING TO FUNCTION AS SOCIAL SCIENCE TEACHER

On the completion of the course, the prospective teachers would be able to:

<b>CO 105.19.1.</b>	<b>Understand different Methods of Teaching Social Science</b>
<b>CO 105.19.2.</b>	Develop skills for developing devices for Time sense and Space sense
<b>CO 105.19.3.</b>	Apply the basic skills of teaching in classroom situation
<b>CO 105.19.4.</b>	Analyse different innovative Strategies and their benefits
<b>CO 105.19.5.</b>	Gain knowledge about motivational techniques in teaching Social Science

## ASSOCIATIVE COURSES

### EDU 106.11 HEALTH AND PHYSICAL EDUCATION COURSE OUTCOMES

On completion of the course, the prospective teachers would be able to:

<b>CO 106.11. I.</b>	<b>Compare between Health and Physical Education</b>
<b>CO 106.11. 2.</b>	Explain various hypo kinetic and communicable diseases and its prevention
<b>CO 106.11..3.</b>	Apply the techniques of First Aid
<b>CO 106.11.4.</b>	Organise and assist in the conduct of sports and games
<b>CO 106.11.5.</b>	Understand the practice of Yoga Asanas and its importance
	CO 106.11.6. Prepare reports on contemporary National /International sports Events



## **EDU. 106.14 ENVIRONMENTAL EDUCATION**

On completion of the course, the prospective teachers would be able to:

<b>CO 106.12.1.</b>	<b>Understand the multidisciplinary nature of environmental education.</b>
<b>CO 106.12.2.</b>	Interpret the interdependence of life and environment and the need for preservation of our cultural heritage.
<b>CO 106.12.3.</b>	Categorize and think critically, ethically and creatively while evaluating environmental issues and making judgments.
<b>CO 106.12.4.</b>	Maximize a sense of responsibility and favorable attitudes, values and skills towards protection and conservation of environment, biodiversity and sustainable development.
<b>CO 106.12.5.</b>	Outline the importance of undertaking Environmental Impact Assessment (EIA).
<b>CO 106.12.6.</b>	Develop awareness about rules, regulations and legal provisions for protection, preservation and conservation of the environment.
<b>CO 106.12.7.</b>	Design different strategies for environmental education and apply them effectively.

## **EDU 106.12 GUIDANCE AND COUNSELLING**

On completion of the course, the prospective teachers would be able to:

<b>CO 106.12.1.</b>	<b>Understand the concept and need of Guidance and counselling in school</b>
<b>CO 106.12.2.</b>	Identify various types of guidance and apply it among students
<b>CO 106.12.3.</b>	Apply different psychological approaches in counselling
<b>CO 106.12.4.</b>	Develop skills and qualities needed for a counsellor
<b>CO 106.12.5.</b>	Identify probable causes and suggesting remedial measures for behavioural Problems.

## SEMESTER II

### CORE COURSES

#### EDU 201: KNOWLEDGE AND CURRICULUM

On completion of the course the perspective teacher would be able to

<b>CO 201.1.</b>	<b>Comprehend the philosophical contributions of India to the world</b>
<b>CO 201.2.</b>	Compare and contrast major philosophical schools (Idealism, Naturalism, Pragmatism, Realism, Humanism).
<b>CO 201.3.</b>	Evaluate the need, the basic principles of sociology and the impact of social change on education.
<b>CO 201.4.</b>	Critically evaluate the practices of paedocentric and activity centered education
<b>CO 201.5.</b>	Understand the foundations of curriculum construction
<b>CO 201.6.</b>	Apply the principles of effective management of the schools.

#### EDU 202: LEARNING AND TEACHING

On completion of the course the perspective teacher would be able to

<b>CO 202.1.</b>	<b>Understand the process of learning and the different approaches to the teaching learning process.</b>
<b>CO 202.2</b>	Evaluate the learning styles and get familiar with the learning style and strategies.
<b>CO 202.3.</b>	Analyse different perspectives of schools of psychology on learning.
<b>CO 203.4.</b>	Identify the exceptional children and their various needs.
<b>CO 202.5.</b>	Understand the characteristics of children with special needs and make appropriate provision for learning in accordance with their needs
<b>CO 202.6.</b>	Acquaint student teachers with group dynamics and help them to develop leadership skills.
<b>CO 202.7</b>	Identify and evaluate the leadership styles of the different types of leaders.

## EDU 203 : ASSESSMENT FOR LEARNING

On completion of the course, the prospective teachers would be able to:

<b>CO 203.1.</b>	<b>Comprehend the latest trends in evaluation and the scope of assessment and evaluation.</b>
<b>CO 203.2.</b>	Develop appropriate assessment instruments for students.
<b>CO 203.3.</b>	Understand the basics of research and the role of teacher as a researcher.
<b>CO 203.4.</b>	Develop competencies to evaluate learning.
<b>CO 203.5.</b>	Apply the essentials of statistics in process of evaluation.

## PEDAGOGIC COURSES

### EDU 204.11 – PEDAGOGICAL DIMENSIONS OF ENGLISH

On completion of the course, the prospective teachers would be able to:

<b>CO 204.1.</b>	<b>Relate with the psycho-linguistic principles of teaching English</b>
<b>CO 204.2.</b>	Organize the content matter to be taught while planning the lessons
<b>CO 204.3.</b>	Evaluate whether the language skills have been attained and provide the necessary remediation
<b>CO 204.4.</b>	Analyze the content with respect to the relevant aims of teaching the target language
<b>CO 204.5.</b>	Adapt to innovative ways of teaching while transacting the curriculum.

### EDU 205.11 – CURRICULUM AND RESOURCE DEVELOPMENT IN ENGLISH EDUCATION

On completion of the course, the prospective teachers would be able to:

<b>CO 205.11.</b>	<b>Understand the principles of curriculum construction with special reference to English teaching.</b>
<b>CO 205.11.2.</b>	Modify the curriculum so as to address the needs of the students.
<b>CO 205.11.3.</b>	Create the activities related to the English Club for developing the communicative skills.
<b>CO 205.11.4.</b>	Use the learning resources that can be used while transacting the curriculum
<b>CO 205.11.5.</b>	Distinguish the different types of curriculum that will suit the learners.

## **EDU 204.16 PEDAGOGICAL DIMENSIONS OF MATHEMATICS**

On completion of the course, the prospective teachers would be able to:

<b>CO 204.16.1.</b>	<b>Determine the implications of psychological theories in mathematics teaching learning process</b>
<b>CO 204.16.2.</b>	Develop lesson plans based on different approaches
<b>CO 204.16.3.</b>	Explore various evaluation technique in mathematics teaching and learning
<b>CO 204.16.4.</b>	Adapt the ways and means to link technology to pedagogic content knowledge
<b>CO 204.16.5.</b>	Analyze the content of mathematics textbooks for standard VIII to X
<b>CO204.16.6.</b>	Construct various evaluation tools

## **EDU 205.16 CURRICULUM AND RESOURCE DEVELOPMENT IN MATHEMATICS EDUCATION**

On completion of the course, the prospective teachers would be able to:

<b>CO 205.16.1.</b>	<b>Identify the conceptual aspects of curriculum and its planning</b>
<b>CO 205.16.2.</b>	Analyze the principles of curriculum constructions and approaches of curriculum organization
<b>CO 205.16.3.</b>	Choose different types of curricula based on learner needs and individual differences
<b>CO 205.16.4.</b>	Determine and utilize adequate learning resources in mathematics
<b>CO 205.16.5.</b>	Make use of various instructional supports to promote effective teaching in mathematics
<b>CO 205.16.6.</b>	Perceive the major highlights of NCF and KCF with respect to mathematics education

## **EDU 204.17: PEDAGOGICAL DIMENSIONS OF PHYSICAL SCIENCE**

On completion of the course, the prospective teachers would be able to:

<b>CO204.17.1.</b>	<b>Compare the implications of Psychological theories in teaching Physical Science</b>
<b>CO204.17.2.</b>	Design unit plan and lesson plans
<b>CO204.17.3.</b>	Construct tools for evaluation in Physical Science Teaching and learning
<b>CO204.17.4.</b>	Examine the concept of techno pedagogic content knowledge
<b>CO204.17.5.</b>	Analyse the content of Physical science curriculum at Secondary and Higher Secondary level

## **EDU 205.17: CURRICULUM AND RESOURCE DEVELOPMENT IN PHYSICAL SCIENCE EDUCATION**

On completion of the course, the prospective teachers would be able to:

<b>CO205.17.1.</b>	<b>Understand the concept and functions of curriculum.</b>
<b>CO205.17.2.</b>	Analyse the principles of curriculum and approaches of curriculum construction.
<b>CO205.17.3.</b>	Compare different types of curriculum.
<b>CO205.17.4</b>	Examine learning resources in Physical Science.
<b>CO205.17.5.</b>	Identify traditional and modern instructional supports in Physical Science.

## **EDU. 204.18: PEDAGOGICAL DIMENSIONS OF NATURAL SCIENCE**

On completion of the course, the prospective teachers would be able to:

<b>CO204.18.1.</b>	<b>Examine the implications of various psychological theories in teaching natural science</b>
<b>CO204.18.2.</b>	Develop skills in planning for instruction based on various approaches
<b>CO204.18.3.</b>	Apply various assessment and evaluation techniques in natural science teaching.
<b>CO204.18. 4.</b>	Evaluate the concept of techno pedagogy and role of teacher as a techno-pedagogue.
<b>CO204.18.5.</b>	Analyze the content of Biology textbooks for standard VIII – X.
<b>CO204.18.6.</b>	Prepare workbooks based on biology topics.

## **EDU. 205.18: CURRICULUM AND RESOURCE DEVELOPMENT IN NATURAL SCIENCE EDUCATION**

On the completion of the course, the prospective teachers would be able to:

<b>CO205.18.1.</b>	<b>Interpret the conceptual aspects of curriculum.</b>
<b>CO205.18.2.</b>	Analyze the principles of curriculum construction and approaches of curriculum organization.
<b>CO205.18.3.</b>	Examine different types of curriculum based on contextual needs.
<b>CO205.18.4.</b>	Develop learning resources useful for teaching natural science.
<b>CO205.18.5.</b>	Utilize various instructional resources to promote effective teaching and learning.
<b>CO205.18.6.</b>	Organize field trips to a place with biological relevance.

## **EDU 204.19 PEDAGOGICAL DIMENSIONS OF SOCIAL SCIENCE**

On the completion of the course, the prospective teachers would be able to:

<b>CO204.19.1.</b>	<b>Acquire knowledge about Critical Pedagogy as an approach to address Social Issues.</b>
<b>CO204.19.2.</b>	Develop skills for preparing Unit plan and Lesson plan.
<b>CO204.19:3.</b>	Apply the knowledge for construction of Achievement Test and Diagnostic Test.
<b>CO204.19:4.</b>	Identify different ways and means to link Technology to Pedagogic Content Knowledge.
<b>CO204.19:5.</b>	Develop skills to analyse the content areas of Social Science Textbooks.
<b>CO204.19.6.</b>	Acquire knowledge about Critical Pedagogy as an approach to address Social Issues.

## **EDU 205.19 CURRICULUM AND RESOURCE DEVELOPMENT IN SOCIAL SCIENCE EDUCATION**

On the completion of the course, the prospective teachers would be able to

<b>CO205.19.1.</b>	<b>Identify the difference between Curriculum and Syllabus</b>
<b>CO205.19.2.</b>	Analyse the different approaches to Curriculum organization
<b>CO205.19.3.</b>	Understand relevance of NCF and KCF in the present Social Science Curriculum

<b>CO205.19.4.</b>	Gain knowledge about Differentiated Curriculum to meet individual differences
<b>CO205.19.5.</b>	Develop skill in developing improvised aids

### SEMESTER III

#### ASSOCIATE COURSE

#### EDU 301 : LANGUAGE ACROSS THE CURRICULUM COURSE OUTCOMES

On completion of the course, the prospective teacher would be able:

<b>CO 301.1.</b>	<b>Identify various principles and functions of language</b>
<b>CO 301.2.</b>	Analyse language diversity that exist in classrooms
<b>CO301.3.</b>	Recognise this concept of language across the curriculum
<b>CO301.4.</b>	Differentiate various models of language across curriculum
<b>CO301.5.</b>	Apply language across curriculum in classroom situations for using language to promote learning in the subject area.
<b>CO 301.6.</b>	Prepare teaching manuals and execute lessons for using language to promote learning

### SEMESTER IV

#### CORE COURSES

#### EDU 401: GENDER, SCHOOL AND SOCIETY

<b>CO 401.1.</b>	<b>Understand key concepts – gender, gender bias, gender stereotype, empowerment, gender parity, equity and equality, patriarchy and feminism;</b>
<b>CO 401.2.</b>	understand the gradual paradigm shift from women's studies to gender Studies and gender and education in the historical and contemporary period
<b>CO 401.3.</b>	Develop an understanding about constitutional- legal provisions and schemes for women in India
<b>CO 401.4.</b>	Analyse gender issues in school, curriculum, textual materials across disciplines, pedagogical processes and its intersection with class, caste, religion and region;
<b>CO 401.5.</b>	Evaluate the gender issues in the society
<b>CO 401.6.</b>	Comprehend ways of redressing the gender issues in the society

## EDU 402- PERSONALITY DYNAMICS IN EDUCATION

On completion of the course, the prospective teachers would be able to:

<b>CO 402.1.</b>	<b>Understand the different approaches of personality and apply various assessment Techniques of personality.</b>
<b>CO 402.2.</b>	Identify the self and understand the significance of life-skills in leading a successful and happy life.
<b>CO 402.3.</b>	Apply the principles of eco-psychology in conservation of natural resources and develop proper attitude towards outdoor education
<b>CO 402.4.</b>	Analyse and understand the basic principles and issues related to Inclusive Education .
<b>CO 402.5.</b>	Develop skills of a guide and counsellor.
<b>CO 402.6.</b>	Develop skills in peer counselling

### PEDAGOGIC COURSES

#### EDU 403.11 PROFESSIONAL DEVELOPMENT OF AN ENGLISH TEACHER

On completion of the course, the prospective teachers will be able to:

<b>CO 403.11.1.</b>	<b>Develop personal and professional competencies as a teacher</b>
<b>CO 403.11.2.</b>	Organize the mode of teaching in a professional manner
<b>CO 403.11.3.</b>	Analyze the current practices in promoting values and humane attitudes
<b>CO 403.11.4.</b>	Compile simple projects having pedagogic relevance
<b>CO 403.11.5.</b>	Adopt reflective practices for enhancing professional development.

#### EDU 403.16 PROFESSIONAL DEVELOPMENT OF MATHEMATICS TEACHER

On completion of the course, the prospective teachers will be able to:

<b>CO 403.16.1.</b>	<b>Develop personal and professional qualities, and competencies of a mathematics teacher.</b>
<b>CO 403.16.2.</b>	Perceive the roles, duties, responsibilities and professional ethics of a mathematics teacher.
<b>CO 403.16.3.</b>	Determine different ways and means of developing



	professionalism.
<b>CO 403.16.4.</b>	Adapt reflective practices in instruction for professionalism.
<b>CO 403.16.5.</b>	Design activities enriching mathematics learning.
<b>CO 403.16.6.</b>	Discover the recent research trends in mathematics education.

### **EDU 403.17: PROFESSIONAL DEVELOPMENT OF PHYSICAL SCIENCE TEACHER**

On completion of the course, the prospective teachers will be able to:

<b>CO403.17.1.</b>	<b>Identify qualities and professional competencies of Physical Science Teacher</b>
<b>CO403.17.2.</b>	Analyse the ways and means of developing professionalism
<b>CO403.17.3.</b>	Examine the role of teacher as a reflective practitioner
<b>CO403.17.4.</b>	Compare the activities enriching Physical Science learning.
<b>CO403.17.5.</b>	Discover recent research trends in Science Education

### **EDU. 403.18: PROFESSIONAL DEVELOPMENT OF NATURAL SCIENCE TEACHER**

On the completion of the course, the prospective teachers would be able to:

<b>CO403.18.1.</b>	<b>Develop personal and professional competencies of natural science teacher</b>
<b>CO403.18.2.</b>	Understand the ways and means of developing professionalism
<b>CO403.18.3.</b>	Adapt themselves as an agent for social change
<b>CO403.18.4.</b>	Distinguish special issues and concerns related to natural science
<b>CO403.18.5.</b>	Utilize recent research trends in the field of science education
<b>CO403.18.6.</b>	Prepare personalized reports on news bulletin connected with life science

**EDU 403.19 PROFESSIONAL DEVELOPMENT OF AN SOCIAL SCIENCE  
TEACHER**

On completion of the course, the prospective teachers will be able to:

<b>CO403.19.1.</b>	<b>Gain Knowledge about essential qualities and Competencies of Social Science Teacher.</b>
<b>CO403.19.2.</b>	Analyse the different ways and means for professional development of teachers.
<b>CO403.19.3.</b>	Understand the Multifaceted Role of Teacher
<b>CO403.19.4.</b>	Develop skills for identifying and resolving controversial issues in Social Science
<b>CO403.19.5.</b>	Acquire knowledge about recent Research trends in Social Science
<b>CO403.19.1.</b>	Gain Knowledge about essential qualities and Competencies of Social Science Teacher.
<b>CO403.19.2.</b>	Analyse the different ways and means for professional development of teachers.
<b>CO403.19.3.</b>	Understand the Multifaceted Role of Teacher